

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-15/0407
of 14 July 2015

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

ISO-BLOCO ONE
ISO-BLOCO ONE CONTROL
ISO-BLOCO RENO

Product family
to which the construction product belongs

Impregnated joint sealing tape made of foamed
polyurethane for sealing joints around windows and in
facades

Manufacturer

ISO-Chemie GmbH
Röntgenstraße 12
73431 Aalen
DEUTSCHLAND

Manufacturing plant

ISO-Chemie GmbH
Röntgenstraße 12
73431 Aalen
DEUTSCHLAND

This European Technical Assessment
contains

8 pages including 3 annexes which form an integral part
of this assessment

This European Technical Assessment is
issued in accordance with Regulation (EU)
No 305/2011, on the basis of

European Assessment Document (EAD)
320001-00-0605 "Joint sealing tape on the basis of a pre-
compressed flexible polyurethan foam for sealing around
windows and joints in building facades"

European Technical Assessment

ETA-15/0407

English translation prepared by DIBt

Page 2 of 8 | 14 July 2015

The European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may only be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction shall be identified as such.

This European Technical Assessment may be withdrawn by the issuing Technical Assessment Body, in particular pursuant to information by the Commission in accordance with Article 25(3) of Regulation (EU) No 305/2011.

Specific Part

1 Technical description of the product

The joint sealing tapes "ISO-BLOCO ONE", "Iso-BLOCO ONE CONTROL" and "ISO-BLOCO RENO" consist of an impregnated, pre-compressed tape of polyurethane flexible foam. On one side an air tight foil is placed.

"ISO-BLOCO ONE" is on one side self-adhesive for fixing on a window frame.

"ISO-BLOCO RENO" is on one side self-adhesive and is equipped with a carrier tape for fixing on the construction element. The carrier tape has a thickness of 3 mm and is not compressible.

"ISO-BLOCO ONE CONTROL" is equipped with a carrier tape and it is packed in a plastic tube for its whole length to avoid the decompressing of the tape before using. It is fixed on the window frame mechanically.

The joint sealing tapes show different dimensions as to width and thickness for dimensioning according to dimensions and movement capacity of the joint of the construction. They are delivered in various lengths on spools.

The technical data and dimensions/sizes of the joint sealing tapes "ISO-BLOCO ONE", "Iso-BLOCO ONE CONTROL" and "ISO-BLOCO RENO" are given in Annex A1/A2.

2 Specification of the intended use in accordance with the applicable EAD

The joint sealing tape is used to seal joints without standing around windows and joints in non-metallic building façades to resist penetration of water and air.

The use scenarios BG 1 and BG 2 are defined by the manufacturer.

The single-sided self-adhesive foil serves as installation assistance.

In the technical file the manufacturer give information concerning the substrates which the product is suitable for and on how these substrates shall be pre-treated.

The verification and assessment methods on which this European Technical Assessment is based lead to the assumption of working life of the product of 10 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

The levels of use categories and performances given in Section 3 are only valid if the sealing tape is used in compliance with the specifications and conditions given in Annex B and the installation instructions of the manufacturer stated in the technical file.

3 Performance of the product and references to the methods used for its assessment

3.1 Mechanical resistance and stability (BWR 1)

Not applicable

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	See Annex A1

3.3 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Watertightness	See Annex A1
Content and/or release of dangerous substances:	
Carrier tape, self adhesive and plastic tube	Components not assessed regarding national regulations expressed in EOTA TR 034
All other components	The chemical composition of the product has to be in compliance with the composition deposited at the Technical Assessment Body (DIBt). The product does not contain dangerous substances according to EOTA TR 034 (version October 2014), expect: VOC, SVOC: The release of dangerous substances to indoor air is not verified with this ETA.
Driving rain resistance	See Annex A1
Water vapour permeability	See Annex A1
Air permeability of joints	See Annex A1
Resistance to effects of high and low surface temperatures	See Annex A1

3.4 Safety and accessibility in use (BWR 4)

Not applicable

3.5 Protection against noise (BWR 5)

Not applicable

3.6 Energy economy and heat retention (BWR 6)

Not applicable

3.7 Sustainable use of natural resources (BWR 7)

For the sustainable use of natural resources no performance was investigated for this product.

3.8 General aspects

The verification of durability and serviceability is part of testing the essential characteristics. Durability and serviceability is only ensured if the specifications of intended use according to Annex B and the specifications of the technical file of the manufacturer are kept.

Essential characteristic	Performance
Resistance to the effects of actions of UV radiation in the presence of moisture	See Annex A1
Resistance to heat ageing	See Annex A1
Compatibility with adjoining construction	See Annex A1

4 Assessment and verification of constancy of performance (AVCP) system applied with reference to its legal base

According to Decision of the Commission of 22 June 1998 (98/436/EC) (OJ L 194 of 10.07.98, p. 30), as amended by Decision of the Commission of 8 January 2001 (2001/596/EC) (OJ L 209 of 02.08.2001, p. 33), the system of assessment and verification of constancy of performance (see Annex V and Article 65 Paragraph 2 to Regulation (EU) No 305/2011) given in the following table applies.

Product	Intended use(s)	Level or class	System
impregnated pre-compressed joint sealing tapes	For uses subject to reaction to fire	F	4
	All other roof waterproofing uses (all other characteristics)	—	4

5 Technical details necessary for the implementation of the AVCP system, as provided for the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at Deutsches Institut für Bautechnik.

Issued in Berlin on 14 July 2015 by Deutsches Institut für Bautechnik

Dirk Brandenburger
Head of Department

beglaubigt:
Hemme



ISO-BLOCO ONE



ISO-BLOCO RENO



ISO-BLOCO ONE CONTROL

Reaction to fire	EN 13501-1	Class F
Use category related to BWR 3		IA 2, S/W 2
Content and/or releases of dangerous substances		see section 3.3
Driving rain resistance	EN 1027	$\Delta p > 600 \text{ Pa}$; at least class 9a DIN EN 12208
Water vapour diffusion resistance	EN ISO 12572	Foam: $\mu = 2$, Foil: $\mu = 360771$ $S_d > 18 \text{ m}$
Air permeability	EN 1026	$a \leq 0.1 \text{ m}^3/[\text{h m (daPa)n}]$; at least class 2 DIN EN 12207
Resistance to the effects of high and low surface temperatures		Pass for -20°C to 80°C
Resistance to the effects of actions of UV radiation in the presence of moisture		Pass for use scenario BG 1 NPD for use scenario BG 2
Resistance to heat ageing		Pass
Compatibility with adjoining construction		Pass for concrete, facing bricks, sand-lime brick, spruce wood with paint coating (watersoluble), spruce wood with transparent ink coating (watersoluble), PVC-profile of windows, steel, zinc-plated steel, aluminium

ISO-BLOCO ONE

ISO-BLOCO ONE CONTROL

System built-up and performances of the product

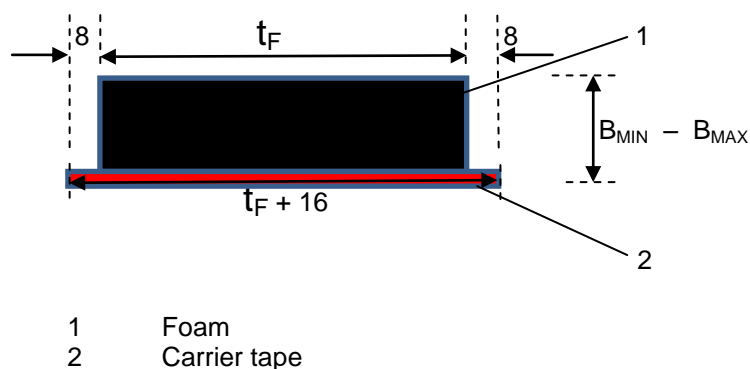
Annex A1

	Type	Joint depth / Foam depth t_f in mm	Allowable for joints width in mm for use scenario BG 1* (B_{min} - B_{max})	Allowable for joints width in mm for use scenario BG 2* (B_{min} - B_{max})
ISO- BLOCO ONE	54/2-12	54	2 - 12	2 - 15
	64/2-12	64		
	74/2-12	74		
	82/2-12	82		
	54/3-18	54	3 - 18	3 - 24
	64/3-18	64		
	74/3-18	74		
	82/3-18	82		
	54/5-30	54	5 - 30	10 - 40
	64/5-30	64	5 - 30	10 - 40
	74/5-30	74	5 - 30	10 - 40
	82/5-30	82		
ISO- BLOCO RENO	65-105** /6-20	49 - 89	6 - 20	-
	65-105** /8-33**	49 - 89	8 - 33	-
ISO- BLOCO ONE CONTROL	56-120** /6-20-	40 - 104	6 - 20	-
	56-120** /8-33	40 - 104	8 - 33	-

* use scenario declared by the manufacturer

** depth on demand

Dimensions for ISO-BLOCO ONE CONTROL and ISO-BLOCO RENO



ISO-BLOCO ONE
ISO-BLOCO ONE CONTROL

Dimensions and Sizes

Annex A2

Installation

The levels of use scenario and the performances of the joint sealing tape can be assumed only, if the installation is carried out according to the installation instructions stated in the technical file of the manufacturer, in particular taking account of the following points:

- installation by appropriately trained personnel,
- installation of only those components which are marked components of the kit,
- installation with the required tools and adjuvants,
- precautions during installation,
- inspecting compliance with suitable weather and curing conditions,
- inspections during installation and of the finished product and documentation of the results.

ISO-BLOCO ONE
ISO-BLOCO ONE CONTROL

Intended use
Specifications

Annex B